

PACIFIC PIPELINE SYSTEM, INC.

OIL SPILL CLEANUP OPERATIONS  
SITE SAFETY AND HEALTH PLAN

Date: 23 MAR 05

INCIDENT NAME: ROSEY CANYON / PYRAMID LAKE

GENERAL LOCATION:

Mile Post: BETWEEN MP 33 & MP 34

Landmark (s): SOUTH VISTA DEL LAGO RD - 1 mile  
EAST SIDE OF I-5

SITE CHARACTERIZATION AND ANALYSIS:

(See Attachment 1)

ORGANIZATIONAL STRUCTURE

PPSI On-Scene Commander: GEBRUE CRAMER / MEL DURLING

Federal On-Scene Coordinator:

State On-Scene Coordinator: DFL - CHRIS LONG

Local Emergency Services Coordinator:

Site Safety & Health Officer: MARK REESE / John Hicks

Contractor Project Manager(s):

ACTI - ENROUTE 1600 hours

Southwest Contractors

- E) (1) TEAM WORKING EAST SIDE OF I-5 TO SHORE UP EXISTING DAM (PLACED BY ANF) AND INSTALL ADDITIONAL DAMS.
- (2) TEAM WORKING WESTSIDE OF I-5 TO CUT ACCESS FOR VAL TRUCKS TO DEPLOY SKIMMERS AND PULL CO FROM LAKE SURFACE. ADDITIONALLY - CREW ERECTING CONTAINMENT DAMS
- (3) BOAT CREWS DEPLOYMENT OF BOOM ACROSS MOUTH OF POSEY CANYON COVE

## PLAN OF OPERATIONS

WEST SIDE OF I-5: DOZERS, EXCAVATORS & LOADERS ARE WORKING TO BUILD CONTAINMENT DAMS AND UPGRADE THE EXISTING ACCESS ROAD.

VACUUM TRUCKS WILL THEN BE TRANSPORTED TO THE SITE TO REMOVE ANY RESIDUAL LIQUIDS.

EAST SIDE OF I-5: DOZERS, EXCAVATORS AND LOADERS WORKING TO BUILD CONTAINMENT DAMS AND TO UPGRADE SITE ACCESS FOR CLEAN-UP.

POSIE CYN RD. TO RUPTURE SITE: DOZERS ~~AND~~ AND EXCAVATORS WORK FROM I-5 EAST UP POSIE CYN. RD. AND FROM RESIOVER SUMMIT DOWN TO THE RUPTURE SITE.

DOUBLE CONTAINMENT BOOMS HAVE BEEN INSTALLED IN THE LAKE TO CONTAIN ~~THE~~ THE SPILL. SKIMMERS WILL BE REMOVING SURFACE OIL.

## WORKPLAN:

1. INITIAL - SHUTDOWN Flow on LINE
2. FORESTRY - BULLDOZED CULVERT TO STOP FLOW TO LAKE PYRAMID. on East side of IS
3. Boom Cove where oil impacted lake - 900' in place @ 1700 hours.
4. Initial is to contain oil as spilled - (2) teams working -

## SAFETY AND HEALTH HAZARDS

Check:

Skin contact: XXX Water hazards: XXXX Heat stress: \_\_\_\_\_Hypothermia: POTENTIAL Hazards to the eye: \_\_\_\_\_ Heat exhaustion: \_\_\_\_\_Cuts and abrasions: \_\_\_\_\_ Heavy objects: XXX Poisonous animals: \_\_\_\_\_Vehicular traffic: xxx/ Infectious conditions: \_\_\_\_\_ High crime areas: \_\_\_\_\_1-5 busy

Other (Describe):

- DIMINISHED LIGHT - WORK AFTER DARK
- SOIL CONDITIONS - ROUGH TERRAIN, POTENTIAL SLIDES
- WEATHER - RAIN
- FLY EQUIPMENT ACCESS

Attached MSDS (Check):

Crude Oil MSDS: XXX SLLB

Other MSDS (Describe) N/A

ALL BOATS ON WATER WILL HAVE LIGHTS (STA)  
FOR NIGHT OPS.

TRAINING PROGRAM:

HAZWOPER, HAZCOM, C6H6 AWARENESS, HEAVY EQUIPMENT CLEARANCE, PPS  
STANDARD SAFETY PROTOCOLS

PRE-ENTRY (DAILY) BRIEFING:

- a. MAINTAIN EQUIPMENT CLEARANCES
- b. NO HOT WORK UNTIL AREA HAS BEEN CHECKED AND CLEARED

EFFECTIVENESS OF SITE SAFETY AND HEALTH PLAN ALL CREWS INITIATE  
WORK & TAILGATE COVERING WORK PLAN / SAFETY PLAN /  
AND SPECIFIC HAZARDS

SITE CONTROL - OFFSITE OPERATIONS:

- a. WORK AREA IS ISOLATED BY TOPOGRAPHY AND GRADING OF ROAD TO CONTAIN  
SPILL
- b. FIELD/ACCESS ROAD LIMITED TO IMMEDIATE PERSONNEL BY ISOLATED ACCESS ROAD  
AND TOPOGRAPHY

## WORK PRACTICES:

## a. PPS STANDARD SAFETY PRACTICES

## PERSONAL PROTECTIVE EQUIPMENT

## Required (Check):

Hardhats: XXX Safety shoes: \_\_\_\_\_ Goggles: \_\_\_\_\_ REFLECTIVE VESTS

Gloves: XXX Overalls (Tyvek): XXXX Rain gear: XXXXRespirators: \_\_\_\_\_ Life jackets: XXX - BOOMERS

Other (Describe): STANDARD WELDING PPE DURING HOT WORK

## MEDICAL SURVEILLANCE :

## MONITORING PROGRAM

## Workers:

WORK AREA: MONITORING - ATMOSPHERIC CHECKS

Environmental Conditions: COOL TO COLD, CLOUDY, FORECAST:

RAIN

TEMP EXPECTED O/N - ↓ 40°F.

#### DECONTAMINATION:

- a. GROSS CONTAMINATION TO BE CLEANED UP ON SITE  
b. ~~HOB~~ TO STEAM CLEAN EXCAVATOR AS NEEDED  
c. PERSONNEL TO DISCARD PRODUCT IMPACTED CLOTHING I.A.W. PPS PROCEDURES

#### EMERGENCY RESPONSE

##### Locations

##### Telephone Numbers

Police/Fire Departments:

LACF

911

USFS

CHP

Hospitals (attach map)

MAYO - VALENCIA

911

Ambulances:

911

Air Ambulances:

911

## Locations

## Telephone Numbers

Paramedics:

911

Other:

CONFINED SPACE ENTRY: N/A

Prepared by:

(Signature)

(Date)

23 MAR 05

## STANDARD PPE &amp; WORK PRACTICES -

- ALL PERSONNEL TO WORK IN TEAMS / NO PERSONNEL WILL WORK ALONE.
- MAINTAIN ↑ AWARENESS OF SURROUNDING AREA - WHEN WORKING AROUND Hvy EQUIPMENT & UNEVEN TERRAIN.



## ATTACHMENT 1

## SITE CHARACTERIZATION AND ANALYSIS

## LOCATION:

POSEY CANYON / PYRAMID LAKE  
BETWEEN MP 33 & 34

## DESCRIPTION OF SITE AND TOPOGRAPHY:

ROUGH, UNEVEN, CANYONS, ESCARPMENTS  
SOIL SATURATED DUE TO HUG RAINS -  
PRESENT & PAST

## HAZARDOUS MATERIALS RELEASED:

CRUDE OIL - SCLB

## DESCRIPTION OF OPERATIONS:

INITIAL -  
23 MARCOS - CONTAINMENT - LAND/WATER  
ROAD CREWS CUTTING ACCESS FOR VAC  
TRUCKS AND BUILDING ADDITIONAL DAMS.

## EXPECTED DURATION OF CLEANUP:

3-5 DAYS - INITIAL

## SAFETY AND HEALTH HAZARDS EXPECTED:

WEATHER - TEMP / RAIN -  
UNEVEN TERRAIN -  
W/ EQUIPMENT  
SATURATED SOILS

AFTER DUSKLIGHT

## PATHWAYS FOR HAZARDOUS SUBSTANCE DISPERSION:

CULVERT & CREEK LEADING TO PYRAMID LAKE  
TRAVERSE DOWN POSEY CANYON

## PERSONAL PROTECTIVE EQUIPMENT REQUIRED:

STD PPE -

## INITIAL MONITORING PERFORMED:

ATMOSPHERIC -

↓ TEMPS ↓ VAPOR DISPERSION

## SPECIAL WORK PRACTICES:

STD PPS

## ENGINEERING CONTROLS:

STD PPS

DRUM HANDLING REQUIRED:

POTENTIAL FOR EMERGENCY RELEASE:

None

POTENTIAL FOR ADDITIONAL SLIDE ACTIVITY. SLIDE @ BREAK WAS WITNESSED TO BE CONTINUING TO MOVE.



## SITE SAFETY PLAN

&

## INCIDENT ACTION PLAN

SPILL NAME: Allen Canyon  
 PREPARED BY: Ben Esparza / Jose Saterzair  
 DATE: March 23, 2008

# ***Advanced Cleanup Technologies, Inc.***

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### **Appendix A**

# Advanced Cleanup Technologies, Inc.

## SITE SAFETY/ INCIDENT ACTION PLAN

Date: March 23, 2005

### I. GENERAL INFORMATION

A. Incident Name: Allen Canyon

B. Location: (Site Map attached as Appendix A)

Nearest Intersecting Roadways: 5 Fwy @ Vista Del Lago (MP 33 & MP 34)

State: CA County: LA Township:

C. Geographical Physical Location:

☐ Industrial

☐ Residential

☒ Unpopulated

☐ Harbor

☒ Rocky

☐ Sandy Beach

☐ Railroad

☒ Other Lake

D. Objectives: Contain oil, remove oil from water with skimmers & vacuum trucks, remove free liquids from land and soil, remove contaminated soil

### II. PERSONNEL ORGANIZATIONS (include all shifts as necessary)

A. ACTI Operations Manager: 3/23 Nite Henry Garcia

B. Incident Commander: Mel Durley

C. Deputy Incident Commander:

D. Legal Officer: ~~John~~

E. Safety Officer: JOHN MUKSAD

F. Operations Section Chief: GARRETT CARMER

G. Planning Section Chief: MARK REESE

H. Logistics Section Chief: BEN ESQUERZA

I. Contractor A: ACTI

J. Contractor B:

K. Contractor C:

L. Contractor D:

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### III. SITE ORGANIZATION AND CONTROL

- A. Command Area: *Vista Delago Visitor Center*
- B. Staging Area: *Vista Delago Visitor Ctr*
- C. Site Security and Access Points:
- D. Work Area Identified:
- Hot (Exclusion) Zone: *Lake, all oil contaminated areas*
- Warm (Contamination Reduction) Zone:
- Cold (Support) Zone:
- E. Decontamination Area: *As identified @ each location*
- F. Additional areas that are related to this incident are located:
- (areas which are separate and/or remote may need individual site plan)

### IV. SITE DESCRIPTION

- A. General:
- Release is on: ☒ Land ☒ Water ☐ Other
- B. Unusual Site Features:
- ☒ Uneven terrain ☐ High Altitude ☐ Heavy Underbrush
- ☒ Steep grades ☐ Swamps ☒ Other: *unstable earth surfaces*
- C. Map/Sketch of site available and attached: ☐ Yes ☐ No (Appendix A)
- D. Land is used for:
- ☐ Agricultural ☒ Industrial ☐ Residential ☒ Recreational
- E. Ecological Considerations: (Are any of the following near this site):
- ☐ Public water intakes ☐ Private Wells ☒ Streams
- ☒ Ponds/Lakes ☐ Nature Preserves ☒ Fish/Wildlife
- ☒ Endangered Species ☒ Parks/Recreation Areas
- ☒ Historical/Archaeology Areas *& Prehistoric*

Comments: *Flycatcher & California Condor*  
*Yellow backed birds. Native trout*



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## V. SITE HAZARD ASSESSMENT

A. Hazards: Indicate if any of the following are present or pose a hazard this incident by checking appropriate boxes:

- ☒ Overhead lines      ☒ Buried utilities      ☐ Radiation devices  
☐ Excessive noise      ☒ Temperature Extremes      ☐ Flammable/Ignitable  
☐ Unusual water level or currents      ☒ Extreme weather conditions

Comments: Air & boat operations to use extreme caution with California Condor very curious low/slow flying birds.

Hazardous Materials (Known or Suspected):

Materials	MSDS Number	Quantity
Crude Petroleum, Sweet	Q123	3,000 bbls

C. Toxicological Hazards:      ☒ Inhalation      ☒ Ingestion      ☒ Skin

Substance:      PEL/TLVC:      IDLH:      STEL:

Substance:      PEL/TLVC:      IDLH:      STEL:

Substance:      PEL/TLVC:      IDLH:      STEL:

D. Weather: (See weather data log) Rainy conditions, windy conditions

E. Future weather conditions that may affect Incident site: 3 day forecast

F. Prevailing Wind Direction: 10 knots

## VI. JOB ACTIVITIES IN WORK PLAN

(Check all activities, which apply for this event).

A. Steps taken to protect the public (Site Control):

- ☒ Evacuation      ☒ Barricade      ☒ Site Assessment

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B. Steps taken to stop discharge:

☒ Containment      ☒ Other: recovery

C. Steps taken to limit movement of material (Confinement):

☒ Boom Deployment for ☒ Containment      ☐ Diversion  
☐ Exclusion      ☐ Dam Construction  
Type: ☐ Dike      ☒ Under-flow      ☐ Retention

D. Steps taken to repair:

Excavation: ☒ Hand      ☐ Trenching      ☐ Bell-hole  
Repair: ☐ Line Breaking/Cutting      ☐ Product Transfer  
☐ Cold-Tapping      ☐ Welding      ☐ Grinding  
☐ Hot Tapping      ☐ Cutting/Burning  
☐ Cold Cutting      ☐ Other:

E. Steps taken to recover discharged materials:

Recovery location: ☒ Land      ☒ Near shore      ☒ Water/Stream  
☐ River      ☒ Lake

Methods/equipment:

☒ Skimmers      ☒ Vac. Trucks      ☒ Boat Work  
☒ Absorbents      ☒ Other: excavation

F. Steps taken for re-mediation/clean-up:

Sampling: ☐ Soil (pH)      ☐ Water      ☐ Drums      ☐ Roll-off  
☐ Transfer      ☒ Other: TB)

G. Waste Management: Types:

☒ Liquid      ☒ Solid      ☐ Sludge      ☐ Gas/Vapors

Placed into: ☐ Drums      ☒ Roll-off n Stock pile      ☒ Trucks      ☐ Other:

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- G. Miscellaneous: ☐ Line marking ☐ Surveying  
☐ Wildlife Hazing ☒ Surveying  
☐ Wildlife Hazing ☐ Photos/Videos

H. Other:

### VII: PERSONNEL PROTECTION REQUIREMENTS

All personnel in the identified work areas shall wear the appropriate personal protective equipment. All personnel will wear Fire Resistant Clothing (Nomex) in the release area where the monitoring indicates levels > 10% LEL.

The following are the defined levels of PPE required. These levels may be modified depending on specific site conditions or job tasks as determined by the Safety Officer.

Level A - Fully encapsulated chemical resistant suit, Air-supplied respirator, inner/ outer gloves, over boots, two-way communications

Level B SCBA (or Airline with escape pack), Nomex, Sarnex or Coated Tyvex, Chemical resistant boots, chemical resistant gloves and hard hat.

Level C Full/half face air purifying respirator, Nomex or Coated Tyvex, Chemical resistant (or safety toe) boots, chemical resistant gloves, eye protection and hard hat.

Level D - Nomex or normal work clothing, hard hat, eye & face protection, protective footwear and gloves.

The recommended minimum levels of protection for this incident by zone and work assignments are:

Job Assignment/Task	Cold Zone	Warm Zone	Hot Zone
General Labor	D	D	D
Equipment Operator	D	D	D
Vac-truck Operator/Crew	D	D	D
Site Assessment/Investigation			
Boom Deployment/Maintenance	D	D	D w/ PFD
Flagman/Watchman			
Blasting Specialist			
Decon Workers	D	D	C/D
Land/Water Surveillance	D	D	D w/ PFD
Supervisory Personnel			

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Modification to levels:

## VIII. DECONTAMINATION PROCEDURES

- A. General Guidelines: Effective decontamination procedures shall be practiced to ensure the spread of any released material is controlled to minimize the effects to employees, the public, or the environment.
- B. Decontamination Solutions: The use of water will be appropriate in cases of severe contamination. An eyewash station of saline solution will be established in case of eye splash.
- C. Decontamination Equipment:

- ☐ Plastic Sheetting    ☐ Plastic Bag    ☐ Bucket    ☒ Decon Pool
- ☒ Long handle brush    ☐ Waste drum    ☐ Step blocks
- ☐ Other

Procedures (by station): Check stations to be established:

- ☐ Tool/Equipment Drop: Place all tools, which will be used again, in contaminated tool, drop area.
- ☒ Gross Decon: Remove as much of the heave contamination as possible by scraping or other physical means without use of solvents/solutions (dry decon only).
- ☐ SCBA/Respirator: If exiting to replace SCBA cylinder or air purifying cartridges enter area free of airborne hazards and replace or exchange used cylinder/cartridge. Place used cylinder in equipment decon. Disposes of cartridge in decon container.
- ☐ Outer equipment removal: If SCBA is to be removed, slip out of harness but do not remove face piece until in an area free of airborne hazards. Outer globes and outer boots are to be removed/washed as necessary.
- ☒ Remove protective clothing: Remove tyvex/samex coveralls turning inside out as they are removed. Place in decon waster container for disposal. Nomex coveralls may be placed in container for washing/laundrying.
- ☒ Hand-wash/clean-up: Use commercial hand cleaner and/or soap and water to wash hands, etc. prior to exiting.

☐ Other:

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## IX. MONITORING / SAMPLING

A. Ambient Air Monitoring should be conducted for:

☒ Flammable Atmosphere ☐ Oxygen Level ☒ Hydrogen Sulfide

☐ HCL ☐ Other:

Frequency: ☐ Continuously or ☒ Asneeded

Specific requirements:

B. Personal samples are to be collected for:

☐ Benzene ☐ Noise ☐ Hydrogen Sulfide ☐ Benzene

☐ Organic Vapors ☐ Radioactivity ☒ Other: N/A

C. Equipment requirements:

Gas Detectors: ☒ Four Gas ☐ Detector tubes ☐ Benzene

☐ Hand Pump ☐ Photo Ionization Detector

☐ Detector Tube:

Tube Type / Number:

Tube Type / Number:

☐ Sampling Pump ☐ Other:

Collection media: ☐ Silica gel tubes ☐ OVM Badge ☐ Filter cassette

☐ Other:

D. Calibration: will perform a standardization calibration to monitoring equipment at an interval of **once per shift**. If equipment is suspected of being damaged it will be removed from use until it has been inspected and calibrated.

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## Monitor / Meter Information

Model/Manufacturer	Serial Number	Calibration Date	Performed By
Cannonbill 2			

## X. MEDICAL SURVEILLANCE

A. Special medical monitoring - N/A E.M.T on site

B. Procedure:

Facility to perform medical testing/monitoring: (name and location)

## XI. EDUCATION & TRAINING

Personnel are required to be trained in accordance with 29CFR 1910.120 for the level at which they are performing duties.

A. Site specific training required: In addition to the training requirements above, the following site specific training topics are to be reviewed prior to work on the site:

- ☒ Site Hazards (material released, physical hazards, etc.)
- ☒ Work areas / activities identified
- ☒ Site Emergency Alerting / Contingency Plan
- ☒ Evacuation Route / Assembly Areas
- ☒ Required PPE
- ☒ Obtaining Medical Treatment / First Aid
- ☒ Decontamination procedures

B. Other Types of training:

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### XII. SAFETY EQUIPMENT, LOCATION, RESPONSIBILITY

- A. First Aid: First aid supplies are located: *With Field Supervisor or I&E etc.*
- B. Persons trained to render aid are: *Henry Garcia, Alfonso Eamino*
- C. Fire Protection: fire extinguishers are located: *In ACT I vehicles*  
Additional equipment/personnel:
- D. Communications (radios/signs):
- E. Sanitation:

Latrines: *At various locations*

Hand-washing:

Comments:

- F. Lighting: *As needed*
- G. Other:

### XIII. CONTINGENCY PLANS

In the event of an emergency (at this incident site) the person first noticing the emergency should notify other workers in the immediate area. Evacuation should commence at once if the emergency poses any threat to the safety of the workers. Upon receiving notification of an emergency, the individual in charge of the work area should take appropriate measures to protect human life, the environment (including wildlife) and property.

- A. Escape Routes: **Determined based on wind conditions.**

North: *Review at each work location*

South:

East:

West:

Alert Methods ☐ Air Horns ☐ Site Alarm ☒ Verbal ☐ Phone ☐ Other \_\_\_\_\_

Recommendations: In the general case of a fire, explosion, chemical spill or toxic vapor release, a site evacuation shall be ordered and shall follow these steps:

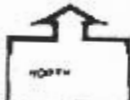
- Sound the applicable alarm \_\_\_\_\_
- Evaluate the immediate situation and exit to nearest evacuation point.

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- Complete a head count.
- Wait for further instructions.

### EVACUATION MAP

To be determined @ each work location.



= Evacuation Point(s)

#### XIV. LOCAL SOURCE OF ASSISTANCE (Pre-Plan)

A. General: When calling emergency responders, provide the following information to the responding agency:

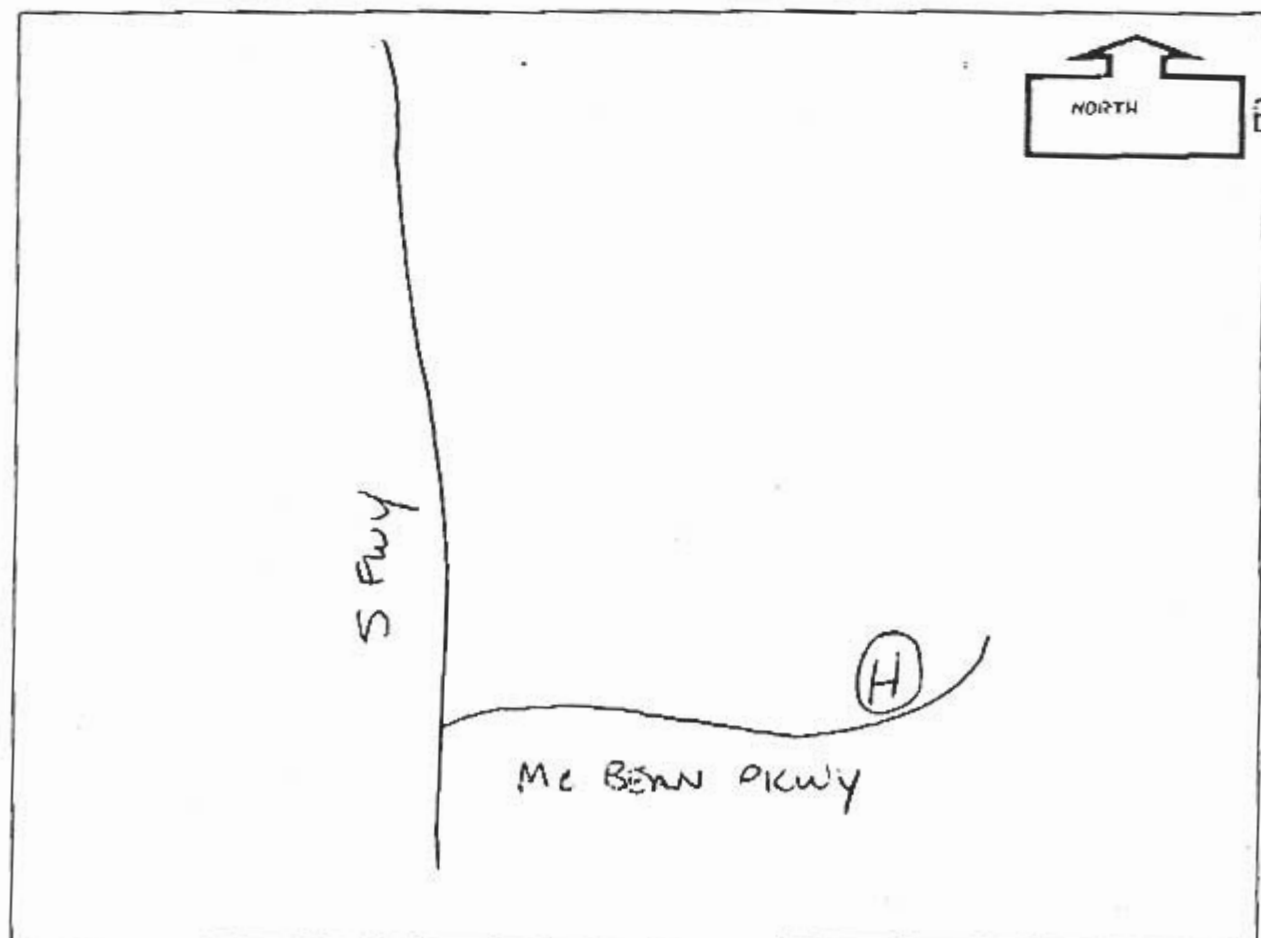
- Type of emergency - fire, injury, etc.
- Incident location (and directions to incident):

Hospital/Clinic Name	Henry Mayo - Valencia
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Hospital Address And Phone	03845 MC BERN PKWY SCTA 91355 Phone (905) 253-5200
Ambulance Service	911
Fire Department	911
Police	911
Rescue	911

**HOSPITAL MAP**

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### **XV. STATE ASSISTANCE AND NOTIFICATION NUMBERS**

- |   |               |        |
|---|---------------|--------|
| A. State Environmental Agency:            | Contact Name: | Number |
| B. State Department of Natural Resources: | Contact Name: | Number |
| C. State Department of Conservation:      | Contact Name: | Number |
| D. State Police:                          | Contact Name: | Number |
| E. State Fire Marshall:                   | Contact Name: | Number |

### **XVI. NATIONAL / REGIONAL SOURCES OF ASSISTANCE**

- |                          |                |
|--------------------------|----------------|
| CHEMTREC                 | 1-800-424-9300 |
| National Response Center | 1-800-424-8802 |
| U. S. Coast Guard        | 1-800-424-8802 |

### **XVII. AMENDMENTS TO SITE SPECIFIC HEALTH & SAFETY PLAN**

- A. This Site-specific Health and Safety Plan is based on information available at the time of preparation. Unexpected conditions may arise which necessitate changes to this plan. It is important that personal protective measures be thoroughly assessed prior to and during the planned activities. Unplanned activities and/or changes in the hazard status should initiate a review of major changes in this plan.
- B. Changes in the hazard status or unplanned activities are to be submitted on "Amendments to Site-specific Health and Safety Plan" which is included as Page      of this plan.
- C. Amendment must be approved by the Incident Commander prior to implementation of amendment.
- D. All notes and documentation, records must NOT be discarded after their use. Documents are to be submitted to History Person (Finance Section) for record retention.



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## Appendix A